

Title (en)

LIGHT THERAPY DEVICE FOR TREATMENT OF BONE DISORDERS AND BIOSTIMULATION OF BONE AND SOFT TISSUE

Title (de)

LICHTTHERAPEUTISCHE VORRICHTUNG ZUR BEHANDLUNG VON KNOCHENERKRANKUNGEN UND BIOSTIMULATION VON KNOCHEN UND WEICHTEILEN

Title (fr)

DISPOSITIF DE PHOTOTHERAPIE POUR LE TRAITEMENT DES AFFECTIONS OSSEUSES ET LA BIOSTIMULATION DES OS A ET DES TISSUS MOUS

Publication

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Application

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Abstract (en)

[origin: WO2006087633A1] The present invention provides an extra-oral light therapy device including an extra-oral bridge, an intra-oral tray removably connected to the extra-oral bridge, at least one extra-oral light emitting diode ("LED") array removably connected to the extra-oral bridge, and a programmable controller for controlling the extra-oral light therapy device. The present invention alternatively provides an extra-oral light therapy device including a head-set, at least one extra-oral LED array removably attached to the head-set, a connector for removably attaching the head-set to the at least one extra-oral LED array, and a programmable controller for controlling the extra-oral light therapy device. The present invention also provides an external light therapy device including a thin, molded substrate, at least one LED array mounted onto the thin, molded substrate, an attaching means for removably attaching the at least one LED array mounted onto the thin, molded substrate to the area of treatment, and a programmable controller for controlling the external light therapy device. The present invention further provides a method for treating jaw bone disorders and jaw osteonecrosis and biostimulating bone and soft tissue utilizing an extraoral light therapy device and a method for treating and stimulating soft and hard tissue and biostimulating bone utilizing an external light therapy device.

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Citation (search report)

- [X] US 6471716 B1 20021029 - PECUKONIS JOSEPH P [US]
- [A] US 5616140 A 19970401 - PRESCOTT MARVIN A [US]
- [XP] WO 2005107637 A1 20051117 - REMEDENT NV [BE], et al
- [XP] GB 2416311 A 20060125 - SMILE STUDIO [GB]
- [A] US 2003009205 A1 20030109 - BIEL MERRILL A [US]
- [A] GB 2376891 A 20021231 - ICN PHOTONICS LTD [GB]
- [A] WO 2004075985 A2 20040910 - PHOTO THERAPEUTICS LTD [GB], et al
- See references of WO 2006087633A1

Cited by

CN106621060A; US10729524B2

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